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(54) FOAMABLE EPOXY RESIN COMPOSITION

(57)Abstract:

PURPOSE: To obtain the title composition which can give a foam excellent in adhesion to molten surface metal, heat resistance, lightweightness, denseness of cell, etc., by mixing a liquid epoxy resin with a latent curing agent, a blowing agent, a surfactant and a specified component.

CONSTITUTION: 100 pts.wt. liquid epoxy resin (A) having at least one epoxy group in the molecule is mixed with 0.5-20 pts.wt. latent curing agent (B) to be used for component A, 0.5-15 pts.wt. blowing agent (C) having a decomposition gas generation temperature of 100-220° C, 0.05-5 pts.wt. surfactant (D) and 10-200 pts.wt. rubber elastomer and/or powdery halogen-free thermoplastic resin (E) of a mean particle diameter of 150µm each of which is insoluble in component A at room temperature but is miscible and dispersible in component A at 80-150° C to obtain the title composition having a melt viscosity of $2.5 \times 10^3 - 5 \times 10^4$ dPa.s at the decomposition gas generation temperature of component C.

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